# CONNECTICUT ACADEMIC PERFORMANCE TEST Modified Assessment System (MAS)

# Performance Level Descriptors for Mathematics

### **CAPT Performance Level Descriptors for Mathematics**

### **Goal Level**

When provided with modifications such as more accessible presentation of text and graphics, embedded graphic organizers, formulas and charts, and scaffolding of multi-step problems, students who perform at this level are likely to demonstrate adequately- to welldeveloped conceptual understanding, computational skills, and problem-solving skills. Typically, the solutions these students provide to mathematics problems are accurate and include complete explanations. Generally, for each content standard listed below. students who perform at the Goal level on the CAPT MAS Mathematics test competently:

### **Proficient Level**

When provided with modifications such as more accessible presentation of text and graphics, embedded graphic organizers, formulas and charts, and scaffolding of multi-step problems, students who perform at this level are likely to demonstrate partially developed conceptual understanding, computational skills, and problem-solving skills. Typically, the solutions these students provide to mathematics problems are partially accurate and include some explanations. Generally, for each content standard listed below, students who perform at the Proficient level on the CAPT MAS Mathematics test marginally:

### **Basic Level**

When provided with modifications such as more accessible presentation of text and graphics, embedded graphic organizers, formulas and charts, and scaffolding of multi-step problems, students who perform at this level are likely to demonstrate limited conceptual understanding, computational skills, and problem-solving skills. Typically, the solutions these students provide to mathematics problems are inaccurate and include minimal to no explanations. Generally, for each content standard listed below, students who perform at the Basic level on the CAPT MAS Mathematics test have a limited ability to:

### **Algebraic Reasoning: Patterns and Functions**

- Recognize relationships using patterns and functions
- Represent linear functions and relations symbolically and with tables and graphs
- Manipulate equations and functions to solve problems

# **Numerical and Proportional Reasoning**

- Extend the understanding of number to include integers, rational numbers and real numbers
- Compute and estimate using properties of number systems to solve problems
- Solve proportional reasoning problems

### **Geometry and Measurement**

- Investigate relationships among plane geometric figures using geometric models, constructions and tools
- Develop mathematical arguments
- Verify geometric relationships using algebra, coordinate geometry and transformations
- Solve a variety of problems involving one- and twodimensional measurements using geometric relationships and trigonometric ratios

## **Working with Data: Probability and Statistics**

- Select the appropriate visual or graphical representation of real data
- Analyze real-world problems using statistical techniques
- Understand and apply the principles of probability in a variety of situation